

CLAIMS

1. A fluid distributor for a heat and material exchange column, comprising a series of adjacent parallel vertical walls (11) defining alternate gas (17) and liquid (20) spaces, some of the vertical walls being separated by horizontal bottom walls (10) provided with a line of holes (15) and at least a portion of each vertical wall (11) being provided with a line of openings (12, 12A), each pair of adjacent vertical walls defining a gas space (17), the line of openings (12, 12A) being formed in the upper part of the vertical wall (11), the horizontal walls being fixed by their ends to a peripheral ring (2), characterized in that first openings (12) have a first length toward the horizontal wall and second openings (12A) have a second length toward the horizontal wall, the second length being greater than the first.
- 20 2. The distributor as claimed in claim 1, in which the first and second openings (12, 12A) are elongate, the second openings (12A) being more elongate than other openings.
- 25 3. The distributor as claimed in claim 2, in which the first and second openings (12, 12A) have an oval or rectangular shape.
- 30 4. The distributor as claimed in one of the preceding claims, in which the line of openings comprises one opening out of N openings (12, 12A) which is a second opening (12A), N being an integer higher than 1, and the other openings of the line are first openings (12) arranged between the second openings.
- 35 5. The distributor as claimed in claim 4, in which N is between 4 and 6 inclusive, and preferably equal to 5.

6. The distributor as claimed in one of the preceding claims, in which the gas spaces are closed at the top.

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7. A heat and material exchange column, characterized in that it comprises at least one distributor as claimed in one of claims 1 to 6.